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Docket: 52502-17

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: LIVINGSTONE, James I. Group Art Unit: 3672
Serial No.: 10/644,749 Examiner: Kenneth L. Thompson
For: REVERSE CIRCULATION DIRECTIONAL AND HORIZONTAL DRILLING
USING CONCENTRIC COIL TUBING

INFORMATION DISCLOSURE STATEMENT

- ☐ 1 Pursuant to 37 CFR 1.97(b)
[within 3 months of filing or prior to 1st Office Action]
- ☐ 2 Certification Pursuant to 37 CFR 1.97(c)
[before Final Office Action or Allowance]
- ☒ 3 Fee Payment Pursuant to 37 CFR 1.97(c)
[before Final Office Action or Allowance]
- ☐ 4 Petition, Certification & Petition Fee Payment Pursuant to 37 CFR 1.97(d)
[before issue fee payment]

Honorable Commissioner of Patents and Trademarks,
Washington, D.C. 20231,
U.S.A.

Sir:

The following are submitted in the above-identified application in compliance with
37 CFR 1.97 & 1.98

- ☒ 5 A list of documents on forms PTO/SB/08A and PTO/SB/08B. A copy of
each identified document other than US Patents and Published
applications and a translation or a concise explanation of each non-
English language document is enclosed herewith.

06/21/2005 HALI11 00000015 022057 10644749
01 FC:1806 180.00 DA

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This paper is submitted in accordance with:

- ☐6 37 CFR 1.97(b): [within 3 months of filing or prior to 1st Office Action]
- ☒7 37 CFR 1.97(c): [before Final Office Action or Allowance, whichever is earlier]; and
- ☐8 The required certification made in item 11 below; or
- ☒9 The \$180.00 fee specified in 37 CFR §1.17(p) for submission of this Information Disclosure Statement is authorized in item 14 below.

☐10 37 CFR §1.97(d): [before issue fee payment]; and

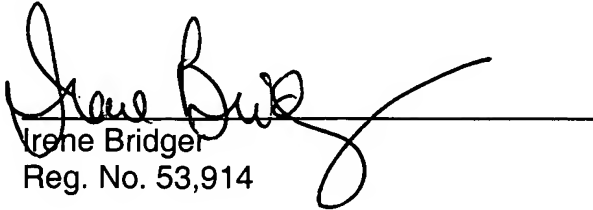
- (a) This is a petition for consideration of the subject Information Disclosure Statement. The petition fee (\$180.00) required by 37 CFR 1.17(i)(1) is authorized in item 14 below. (Direct this letter to: "Attention PETITIONS EXAMINER" and if applicable include batch locator information: e.g. "Allowed Files, Batch _____, Date of Allowance _____"); and
- (b) The required Certification is stated in item 11 below.

☐11 Certification

- ☐12 Each item of information contained in this Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Statement; or
- ☐13 No item of information contained in this Statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the person signing this document after making reasonable inquiry, was known to any individual designated in 37 CFR 1.56(c) more than three (3) months prior to the filing of this Statement.

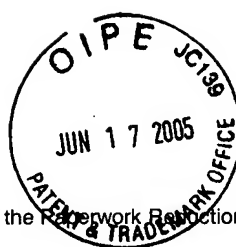
[XX]14 Please charge all applicable fees associated with the submittal of this Information Disclosure Statement to our Deposit Account No. 02-2057. An original and two (2) copies of this document are enclosed.

Respectfully submitted,


Irene Bridger
Reg. No. 53,914

Bennett Jones LLP
4500 Bankers Hall East
855 – 2nd Street SW
Calgary, Alberta T2P 4K7
(403)-298-8157

Date: June 16, 2005



PTO/SB/08A (08-03)
Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known			
		Application Number	10/644,749		
		Filing Date	August 21, 2003		
		First Named Inventor	LIVINGSTONE, James I.		
		Art Unit	3672		
		Examiner Name	Kenneth L. Thompson		
Sheet	1	of	5	Attorney Docket Number	52502-17

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
		US-4,744,420	May 17 1988	Patterson et al.	
		US-6,213,201	April 10, 2001	Renkis	
		US-6,192,985	Feb. 27, 2001	Hinkel et al.	
		US-6,189,617	Feb. 20, 2001	Sorhus et al.	
		US-5,881,813	March 16, 1999	Brannon et al.	
		US-5,006,046	April 9, 1991	Buckman et al.	
		US-4,681,164	July 21, 1987	Stacks	
		US-4,671,359	June 9, 1987	Renfro	
		US-3,920,090	Nov. 18, 1975	McQueen et al.	
		US-4,463,814	Aug. 7, 1984	Horstmeyer et al.	
		US-5,411,105	May 2, 1995	Gray	
		US-5,178,223	Jan. 12, 1993	Smet	
		US-4,431,069	Feb. 14, 1984	Dickinson, III et al.	
		US-2002/0000332	Jan. 3, 2002	Merecka, et al.	
		US-6,394,197	May 28, 2002	Holte	
		US-4,219,087	Aug. 26, 1980	Johnson	
		US-4,790,391	Dec. 13, 1988	Hamamura et al.	
		US-4,243,252	Jan. 6, 1981	Johnson	
		US-4,534,426	Aug. 13, 1985	Hooper	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code*Number*Kind Code ⁵ (if known)				
		WO 97/35093	09-25-1997	Misselbrook et al.		
		EP 0787886	05-02-1997	Anadrill International SA		
		WO 02/10549	02-07-2002	Weatherford/Lamb Inc.		
		WO 01/90528	11-29-2001	Gardes		
		FR 2597150	04-11-1986	Bonafice et al.		

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. *Applicant's unique citation designation number (optional). *See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. *Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). *For the Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. *Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. *Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known	
				Application Number	10/644,749
				Filing Date	August 21, 2003
				First Named Inventor	Livingstone, James I.
				Art Unit	3672
				Examiner Name	Kenneth L. Thompson
Sheet	2	of	5	Attorney Docket Number	52502-17

U.S. PATENT DOCUMENTS					
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		Number-Kind Code ² (if known)			
		US-6,325,159	Dec. 4, 2001	Peterman, et al.	
		US-5,020,611	June 4, 1991	Morgan et al.	
		US-3,075,589	Jan. 29, 1963	D.B. Grable et al.	
		US-3,795,283	March 5, 1974	Oughton	
		US-5,435,395	July 25, 1995	Connell	
		US-5,348,097	Sept. 20, 1994	Giannesini et al.	
		US-5,638,904	June 17, 1997	Misselbrook et al.	
		US-5,236,036	Aug. 17, 1993	Ungemach et al. ⁴	
		US-6,015,015	Jan. 18, 2000	Luft et al.	
		US-5,033,545	July 23, 1991	Sudol	
		US-5,068,842	Nov. 26, 1991	Naito	
		US-5,285,204	Feb. 8, 1994	Sas-Jaworsky	
		US-5,513,528	May 7, 1996	Holenka et al.	
		US-4,100,528	July 11, 1978	Bernard et al.	
		US-3,792,429	Feb. 12, 1974	Patton et al.	
		US-5,892,460	April 6, 1999	Jerabek et al.	
		US-3,770,006	Nov. 6, 1973	Sexton et al.	
		US-6,047,784	April 11, 2000	Dorel	

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Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
		WO 00/57019	09-28-2000	Mocivnik et al.		
		EP 1 245 783	02-10-2002	Anadrill International SA		
		CA 1,325,969	10-28-1987	Sudol		
		WO 97/05361	02-13-1997	Misselbrook et al.		
		GB 2368079	10-18-2000	Pia		

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				Application Number	10/644,749
				Filing Date	August 21, 2003
				First Named Inventor	LIVINGSTONE, James I.
				Art Unit	3672
				Examiner Name	Kenneth L. Thompson
Sheet	3	of	5	Attorney Docket Number	52502-17

U.S. PATENT DOCUMENTS					
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		Number-Kind Code ² (if known)			
		US-6,405,809	June 18, 2002	Patel et al.	
		US-6,377,050	April 23, 2002	Chemali et al.	
		US-6,359,438	March 19, 2002	Bittar	
		US-6,196,336	March 6, 2001	Fincher et al.	
		US-5,396,966	March 14, 1995	Roos, Jr. et al.	
		US-5,411,105	May 2, 1995	Gray	
		US-6,209,663	April 3, 2001	Hosie	
		US-5,720,356	Feb. 24, 1998	Gardes	
		US-6,065,550	May 23, 2000	Gardes	
		US-6,209,665	April 3, 2001	Holte	
		US-4,709,768	Dec. 1, 1987	Kostylev et al.	
		US-4,705,119	Nov. 10, 1987	Kostylev et al.	
		US-4,321,974	March 30, 1982	Klemm	
		US-4,509,606	April 9, 1985	Willis	
		US-4,055,224	Oct. 25, 1977	Waller	
		US-6,481,501	Nov. 19, 2002	Chavez et al.	
		US-6,158,531	Dec. 12, 2000	Vail, III	
		US-6,250,383	June 26, 2001	Patel	
		US-6,263,987	July 24, 2001	Vail, III	

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				Application Number	10/644,749
				Filing Date	August 21, 2003
				First Named Inventor	LIVINGSTONE, James I.
				Art Unit	3672
				Examiner Name	Kenneth L. Thompson
Sheet	4	of	5	Attorney Docket Number	52502-17

U.S. PATENT DOCUMENTS					
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		Number-Kind Code ² (if known)			
		US-4,391,328	July 5, 1983	Aumann	
		US-5,575,451	Nov. 19, 1996	Colvin et al.	
		US-4,461,448	July 24, 1984	Huey et al.	
		US-4,832,126	May 23, 1989	Roche	
		US-2,609,836	Sept. 9, 1952	G.S. Knox	
		US-4,647,002	March 3, 1987	Crutchfield	
		US-2003/0141111	July 31, 2003	Pia	
		US-2003/0150621	August 14, 2003	Pia	
		US-5,890,540	April 6, 1999	Pia et al.	
		US-6,109,370	August 29, 2000	Gray	
		US-3,416,618	Dec. 17, 1968	Kunemann	
		US-4,718,503	Jan. 12, 1988	Stewart	
		US-4,739,844	April 26, 1988	Farris et al.	
		US-5,174,394	Dec. 29, 1992	Fischer et al.	
		US-5,199,515	April 6, 1993	Sinclair et al.	
		US-6,668,933	Dec. 30, 2003	Kent	
		US-6,065,550	May 23, 2000	Gardes	
		US-6,745,855	June 8, 2004	Gardes	
		US-6,457,540	October 1, 2002	Gardes	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ Number* Kind Code ⁵ (if known)				

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Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known			
		Application Number	10/644,749		
		Filing Date	August 21, 2003		
		First Named Inventor	LIVINGSTONE, James I.		
		Art Unit	3672		
		Examiner Name	Kenneth L. Thompson		
Sheet	5	of	5	Attorney Docket Number	52502-17

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
		UNDERBALANCED DRILLING; Nowsco	
		Nowsco/Downhole Systems: "Test, Treat, Test System Using a Concentric Coiled Tubing/DST Package": Hoyer, Fried & Sask	
		BlackMax Downhole Tools; An NQL Drilling Tools Inc. Company; Electro Magnetic Measurement While Drilling; Oil & Gas Application; EM=MWD	
		Logging While Drilling; http://www.odp.tamu.edu/publications/196_IR/chap_2/c2_.htm	
		Drilling and Formation Evaluation; Baker Hughes; www.bakerhughes.com/bakerhughes/products/well.htm	
		On Trak MWD System; Baker Hughes; www.bakerhughes.com/inteq/evaluation/ontrak/index.htm	
		PressTEQ Application Examples; Baker Hughes; www.bakerhughes.com/inteq/D&P/pressure/index.htm	
		Thruster Drilling System; Baker Hughes; www.bakerhughes.com/inteq/Drilling/thruster/index.htm	
		Coiled Tubing; Baker Hughes; Baker Oil Tools Coiled Tubing Solutions; www.bakerhughes.com/bot/coiled_tubing/index/htm	
		COLT Coil Tubing Drilling Bottom Hole Assembly; Antech Special Engineering Products; Coiled Tubing Downhole Tools	
		US Patent Application 10/644749 filed on August 21, 2003 by James Livingstone	

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